Special Issue

Polyketides-II

Message from the Guest Editor

The study of polyketide synthase (PKSs) enzymes has grown over the last quarter-century into a dynamic area, encompassing a multiplicity of complementary approaches, from metagenomics to microbiology, in vitro enzymology to structural biology, and molecular genetics to synthetic biology. This second Special Issue aims to encompass papers at the forefront of research in the field, by treating in particular the following topical issues: Novel types of PKS domain enzymology; new types of biosynthetic pathways in which PKSs are implicated; efforts to discover new polyketides by exploiting advances in genome mining (identification of novel producers, activation of silent pathways, heterologous expression, etc.); new insights into PKS function gleaned from structural biology and allied biophysical approaches; emerging information on the functions of these metabolites in the environment (chemical ecology); and novel synthetic biology approaches towards manipulating PKSs towards the generation of analogs for biological testing.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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